

WPI

TI - Preventing thermal deformation of steel strip supporting roll - involves heat-treating strip according to temp. of strip in roll room, ensuring uniform temp. distribution along roll

AB - J62256922 Heat treating furnace, roll room connected to the heat treating furnace, and strip supporting roll which changes the running direction of the strip are used. The strip is heat-treated using gas corresp. to the temp. of the strip in the roll room.

- USE - Temp. distribution of the strip supporting roll is made uniform in the lengthwise direction, and thermal deformation of the roll is prevented. (0/5)

PN - JP62256922 A 19871109 DW198750 004pp

- JP6019120B B2 19940316 DW199414 C21D9/56 000pp

PR - JP19860098137 19860430

PA - (KAWI ) KAWASAKI STEEL CORP

- (MITO ) MITSUBISHI HEAVY IND CO LTD

MC - M24-D04B

DC - M24

IC - C21D9/56

AN - 1987-352709 [50]

PAJ

TI - METHOD FOR PREVENTING THERMAL DEFORMATION OF STRIP SUPPORTING ROLL

AB - PURPOSE: To prevent the thermal deformation of a supporting roll and to improve the yield of a product by disposing the supporting roll to change the passing direction of a strip in a roll chamber communicating with a heat treatment furnace and blowing the gas corresponding to the temp. of the strip into the furnace.

- CONSTITUTION: The strip supporting roll 14 is disposed in the roll chamber 13 partitioned by a partition wall 12 from the heat treatment furnace 11 to a change the passing direction of the strip 16 which is put into and out of the roll chamber 13 through a pair of strip passages 15 provided to the wall 12. The strip 16 is thus passed in the heat treatment furnace 11 and is subjected to a heat treatment. The above-mentioned that treatment furnace 11 and the roll chamber 13 are kept communicated by a communicating pipe 17. A feed fan 18 for feeding the gas from the heat treatment furnace 11 into the roll chamber 13, a damper 19 to adjust a gas feed rate and pressure, a diaphragm 22 is a bypass valve 21 and a heat exchanger 20 to control the temp. of the gas are incorporated into the above-mentioned communicating pipe 17. The temp. of the gas to be fed into the roll chamber 13 is thereby so controlled as to correspond to the temp. of the strip 16 and the temp is uniformly distributed along the longitudinal direction of the supporting roll 14. The deformation of the roll 14 is thereby prevented and the heat buckling and meandering are prevented.

PN - JP62256922 A 19871109

PD - 1987-11-09

ABD - 19880427

ABV - 012139

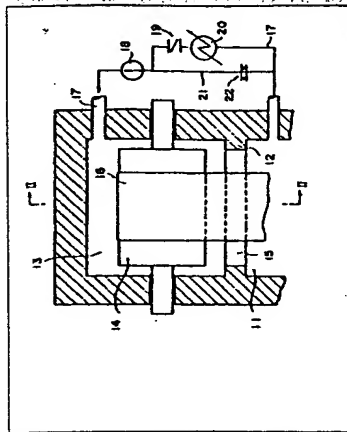
AP - JP19860098137 19860430

GR - C491

PA - MITSUBISHI HEAVY IND LTD; others: 01

IN - MIHARA KAZUMASA; others: 03

I - C21D9/56



<First Page Image>